PATENT CLAIMS

- 1. A traction motor (1) in vehicles with an electric or diesel-electric drive, the traction motor (1) which is mounted in a housing (11) being grounded, characterized in that the traction motor (1) is grounded via at least one grounding capacitor (C_{ground}).
- 2. The traction motor (1) as claimed in claim 1, characterized in that the traction motor (1) can be supplied via electronic power actuating elements.
- 3. The traction motor (1) as claimed in claim 1 or 2, characterized in that the grounding connection is between the housing (11) of the traction motor (1) and a vehicle ground is made in or on a rotational speed sensor (12).
- 4. The traction motor (1) as claimed in claim 1 or 2, characterized in that the grounding connection between the housing (11) of the traction motor (1) and a vehicle ground is made via the shielding (15) of the power cable.
- 5. The traction motor (1) as claimed in claim 2, characterized in that the grounding connection between the housing (11) of the traction motor (1) and a vehicle ground is made in the converter.
- 6. The traction motor (1) as claimed in claim 5, characterized in that the grounding connection is made via a separate line in the power supply cable (9) or via the cable shielding of the power supply cable (9).
- 7. The traction motor (1) as claimed in one of the preceding claims, characterized in that the electrical voltage is monitored at at least one bearing (10) as a measured variable of a functionally capable grounding connection via the grounding capacitor (C_{ground}).